This listing of claims will replace all versions, and listings, of claims in the application:

Listing of Claims:

Claims 1 - 13 (Canceled)

14. (New) An apparatus comprising:

a tracking implementation for tracking signal strength of each wireless client's wireless

link with each respective wireless access point for a plurality of wireless clients in

communication with a plurality of access points; and

a control implementation for varying the operation of at least one of the respective

wireless access points and wireless clients so as to acquire maximum signal strength for each

wireless client's link with each respective wireless access point.

15. (New) The apparatus of claim 14, further comprising the tracking implementation

is configured to track one of a group consisting of packet error rate, channel; rate and processor

performance.

16. (New) The apparatus of claim 14, wherein the control implementation includes at

least one control mechanism to vary the operation of at least one of the wireless access points

and the wireless clients, wherein the at least one control mechanism is selected from a group

including: a WLAN client admission control; a mechanism for varying the signal power of at

least one of the clients and the access points; a mechanism for changing at least one of the data

rate, coding, and modulation of the wireless signal; and a mechanism for varying the packet

length and other controllable protocol characteristics.

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17. (New) An apparatus, comprising:

a tracking implementation for tracking a link quality parameter selected from a group

consisting of multipath, signal interference, packet loss, signal quality, transfer rate and packet

loss for each link between a wireless client and an access point for a plurality of wireless clients

in communication with a plurality of access points;

a goal implementation for comparing the link quality parameter with a desired value to

obtain a fitness measure; and

a control implementation for varying the operation of at least one of the plurality of

wireless access points and plurality of wireless clients in response to the fitness measure, so as to

acquire one of a group consisting of minimal multipath, minimal signal interference, minimal

packet loss, minimal packet error rate and maximum transfer rate for each link between a

wireless client and an access point for a plurality of wireless clients in communication with a

plurality of access points.

18. (New) The apparatus of claim 17, wherein the control implementation includes at

least one control mechanism to vary the operation of at least one of the wireless access points

and the wireless clients, wherein the at least one control mechanism is selected from a group

including: a mechanism for varying the signal power of at least one of the clients and the access

points; a mechanism for changing at least one of the data rate, coding, and modulation of the

wireless signal; and a mechanism for varying the packet length.

19. (New) The apparatus of claim 17, wherein the signal quality parameter is

multipath and the control implementation varies the operation of at least one of the plurality of

wireless access points and plurality of wireless clients to acquire minimal multipath for each link

between a wireless client and an access point for a plurality of wireless clients in communication

with a plurality of access points.

20. (New) The apparatus of claim 17, wherein the signal quality parameter is packet

loss and the control implementation varies the operation of at least one of the plurality of

wireless access points and plurality of wireless clients to acquire minimal packet loss for each

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link between a wireless client and an access point for a plurality of wireless clients in

communication with a plurality of access points.

21. (New) The apparatus of claim 17, wherein the signal quality parameter is packet

error and the control implementation varies the operation of at least one of the plurality of

wireless access points and plurality of wireless clients to acquire minimal packet error for each

link between a wireless client and an access point for a plurality of wireless clients in

communication with a plurality of access points.

22. (New) The apparatus of claim 17, wherein the signal quality parameter is signal

interference and the control implementation varies the operation of at least one of the plurality of

wireless access points and plurality of wireless clients to acquire minimal signal interference for

each link between a wireless client and an access point for a plurality of wireless clients in

communication with a plurality of access points.

23. (New) The apparatus of claim 17, wherein the signal quality parameter is transfer

rate and the control implementation varies the operation of at least one of the plurality of

wireless access points and plurality of wireless clients to acquire maximum transfer rate for each

link between a wireless client and an access point for a plurality of wireless clients in

communication with a plurality of access points.

24. (New) The apparatus of claim 17, wherein the control is selected form a group

consisting of change frequency, directionally steer an antenna and steer antenna polarization for

at least one of the plurality of access points.

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